```
* * * * * * * * * *  Welcome to STN International  * * * * * * * * * *

 NEWS  1          Web Page URLs for STN Seminar Schedule - N. America
 NEWS  2  Sep 29  The Philippines Inventory of Chemicals and Chemical
                  Substances (PICCS) has been added to CHEMLIST
 NEWS  3  Oct 27  New Extraction Code PAX now available in Derwent
                  Files
 NEWS  4  Oct 27  SET ABBREVIATIONS and SET PLURALS extended in
                  Derwent World Patents Index files
 NEWS  5  Oct 27  Patent Assignee Code Dictionary now available
                  in Derwent Patent Files
 NEWS  6  Oct 27  Plasdoc Key Serials Dictionary and Echoing added to
                  Derwent Subscriber Files WPIDS and WPIX
 NEWS  7  Nov 29  Derwent announces further increase in updates for DWPI
 NEWS  8  Dec  5  French Multi-Disciplinary Database PASCAL Now on STN
 NEWS  9  Dec  5  Trademarks on STN - New DEMAS and EUMAS Files
 NEWS 10  Dec 15  2001 STN Pricing
 NEWS 11  Dec 17  Merged CEABA-VTB for chemical engineering and
                  biotechnology
 NEWS 12  Dec 17  Corrosion Abstracts on STN
 NEWS 13  Dec 17  SYNTHLINE from Prous Science now available on STN
 NEWS 14  Dec 17  The CA Lexicon available in the CAPLUS and CA files

 NEWS EXPRESS  FREE UPGRADE 5.0DP1 FOR STN EXPRESS 5.0 WITH DISCOVER!
               (WINDOWS) NOW AVAILABLE
 NEWS HOURS    STN Operating Hours Plus Help Desk Availability
 NEWS INTER    General Internet Information
 NEWS LOGIN    Welcome Banner and News Items
 NEWS PHONE    Direct Dial and Telecommunication Network Access to STN
 NEWS WWW      CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that
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  * * * * * * * * * * * * * * STN  Columbus  * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 12:35:05 ON 21 DEC 2000

=> d his


     (FILE 'HOME' ENTERED AT 12:35:05 ON 21 DEC 2000)

=> file reg

COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                      ENTRY    SESSION
FULL ESTIMATED COST                                    0.15       0.15

FILE 'REGISTRY' ENTERED AT 12:35:23 ON 21 DEC 2000
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STRUCTURE FILE UPDATES:   20 DEC 2000  HIGHEST RN 310390-30-8
DICTIONARY FILE UPDATES:  20 DEC 2000  HIGHEST RN 310390-30-8

TSCA INFORMATION NOW CURRENT THROUGH July 8, 2000

  Please note that search-term pricing does apply when
  conducting SmartSELECT searches.

Structure search limits have been increased.  See HELP SLIMIT
for details.

=> polyethylene glycol

POLYETHYLENE IS NOT A RECOGNIZED COMMAND
The previous command name entered was not recognized by the system.
For a list of commands available to you in the current file, enter
"HELP COMMANDS" at an arrow prompt (=>).

=> s polyethylene glycol

          6119 POLYETHYLENE
         37888 GLYCOL
           712 GLYCOLS
         37888 GLYCOL
                 (GLYCOL OR GLYCOLS)
L1        5113 POLYETHYLENE GLYCOL
                 (POLYETHYLENE(W)GLYCOL)

=> file medline caplus embase biosis

COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                         ENTRY    SESSION
FULL ESTIMATED COST                                       7.50       7.65

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FILE 'CAPLUS' ENTERED AT 12:36:06 ON 21 DEC 2000
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=> s polyethylene glycol

L2       100489 POLYETHYLENE GLYCOL

=> s polyethylene (a) glycol

L3       101228 POLYETHYLENE (A) GLYCOL

=> s (spinal (a) cord? (a)) or neur? or verteb?) (a) injur?

MISSING TERM 'A)) OR'
The search profile that was entered contains a logical operator
followed immediately by a right parenthesis ')'.
```

```
=> s (spinal (a) cord?) or neur? or verteb?) (a) injur?

UNMATCHED RIGHT PARENTHESIS 'VERTEB?) '
The number of right parentheses in a query must be equal to the
number of left parentheses.

=> s ((spinal (a) cord?) or neur? or verteb?) (a) injur?

   3 FILES SEARCHED...
L4        45631 ((SPINAL (A) CORD?) OR NEUR? OR VERTEB?) (A) INJUR?

=> s l3 and l4

L5           31 L3 AND L4

=> duplicate

ENTER REMOVE, IDENTIFY, ONLY, OR (?):remove

ENTER L# LIST OR (END):l5

DUPLICATE PREFERENCE IS 'MEDLINE, CAPLUS, EMBASE, BIOSIS'
KEEP DUPLICATES FROM MORE THAN ONE FILE?  Y/(N):n

PROCESSING COMPLETED FOR L5
L6            14 DUPLICATE REMOVE L5 (17 DUPLICATES REMOVED)

=> d


L6   ANSWER 1 OF 14  MEDLINE                              DUPLICATE 1
AN   2000123902     MEDLINE
DN   20123902
TI   Immediate recovery from spinal cord injury
     through molecular repair of nerve membranes with polyethylene
     glycol.
AU   Borgens R B; Shi R
CS   Center for Paralysis Research, Department of Basic Medical Sciences,
     School of Veterinary Medicine, Purdue University, West Lafayette, Indiana
     47907, USA.. cpr@vet.purdue.edu
SO   FASEB JOURNAL, (2000 Jan) 14 (1) 27-35.
     Journal code: FAS. ISSN: 0892-6638.
CY   United States
DT   Journal; Article; (JOURNAL ARTICLE)
LA   English
FS   Priority Journals; Cancer Journals
EM   200004
EW   20000403


=> s l6 py < 1998

MISSING OPERATOR L6 PY
The search profile that was entered contains terms or
nested terms that are not separated by a logical operator.

=> s l6 and py < 1998

   3 FILES SEARCHED...
L7            9 L6 AND PY < 1998
```

=> d

L7 ANSWER 1 OF 9 MEDLINE
AN 97480455 MEDLINE
DN 97480455
TI Pharmacologically initiated defecation for persons with **spinal cord injury**: effectiveness of three agents.
AU House J G; Stiens S A
CS Department of Physical Medicine and Rehabilitation, Baylor College of Medicine, Houston, TX, USA.
SO ARCHIVES OF PHYSICAL MEDICINE AND REHABILITATION, **(1997 Oct)** 78 (10) 1062-5.
Journal code: 8BK. ISSN: 0003-9993.
CY United States
DT (CLINICAL TRIAL)
Journal; Article; (JOURNAL ARTICLE)
(RANDOMIZED CONTROLLED TRIAL)
LA English
FS Abridged Index Medicus Journals; Priority Journals
EM 199801
EW 19980104

=> d ti tot

L7 ANSWER 1 OF 9 MEDLINE
TI Pharmacologically initiated defecation for persons with **spinal cord injury**: effectiveness of three agents.

L7 ANSWER 2 OF 9 MEDLINE
TI Improved bowel care with a **polyethylene glycol** based bisacadyl suppository.

L7 ANSWER 3 OF 9 MEDLINE
TI Effects of partial blood replacement with pyridoxalated hemoglobin polyoxyethylene conjugate solution on transient cerebral ischemia in gerbil.

L7 ANSWER 4 OF 9 MEDLINE
TI Nursing management of pressure ulcers using a hydrogel dressing protocol: four case studies.

L7 ANSWER 5 OF 9 MEDLINE
TI Reduction in bowel program duration with **polyethylene glycol** based bisacodyl suppositories.

L7 ANSWER 6 OF 9 MEDLINE
TI Reducing postischemic paraplegia using conjugated superoxide dismutase.

L7 ANSWER 7 OF 9 MEDLINE
TI Attenuated neuropathology by nilvadipine after middle cerebral artery occlusion in rats.

L7 ANSWER 8 OF 9 MEDLINE
TI Demonstration of hyperphosphorylated neurofilaments in neuronal perikarya in vivo by microinjection of antibodies into cultured spinal neurons.

L7 ANSWER 9 OF 9 BIOSIS COPYRIGHT 2000 BIOSIS

TI BRAIN AND TISSUE DISTRIBUTION OF **POLYETHYLENE GLYCOL**
-CONJUGATED SUPEROXIDE DISMUTASE IN RATS.

=>

---Logging off of STN---

=>
Executing the logoff script...

=> LOG Y

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	21.40	29.05

STN INTERNATIONAL LOGOFF AT 12:42:11 ON 21 DEC 2000

Trying 3106016892...Open

Welcome to STN International! Enter x:x
LOGINID:ssspta1617srh
PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * * * * * * Welcome to STN International * * * * * * * * * *

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NEWS 14	Dec 17	The CA Lexicon available in the CAPLUS and CA files

NEWS EXPRESS	FREE UPGRADE 5.0DP1 FOR STN EXPRESS 5.0 WITH DISCOVER! (WINDOWS) NOW AVAILABLE
NEWS HOURS	STN Operating Hours Plus Help Desk Availability
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NEWS LOGIN	Welcome Banner and News Items
NEWS PHONE	Direct Dial and Telecommunication Network Access to STN
NEWS WWW	CAS World Wide Web Site (general information)

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* * * * * * * * * * * * * * STN Columbus * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 13:24:22 ON 21 DEC 2000

=> file bioscience

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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.15	0.15

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FILE 'USPATFULL' ENTERED AT 13:24:40 ON 21 DEC 2000

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FILE 'WPINDEX' ACCESS NOT AUTHORIZED

=> s polyethylene (a) glycol

  32 FILES SEARCHED...
L1      258746 POLYETHYLENE (A) GLYCOL

=> s ((spinal (a) cord) or neru? or nerv? or vertebr?) and injur?

   8 FILES SEARCHED...
  22 FILES SEARCHED...
  33 FILES SEARCHED...
  49 FILES SEARCHED...
L2      339730 ((SPINAL (A) CORD) OR NERU? OR NERV? OR VERTEBR?) AND INJUR?

=> s l1 and l2

L3        2392 L1 AND L2

=> duplicate

ENTER REMOVE, IDENTIFY, ONLY, OR (?):remove

ENTER L# LIST OR (END):l3

DUPLICATE IS NOT AVAILABLE IN 'ADISINSIGHT, BIOCOMMERCE, DGENE, DRUGLAUNCH,
DRUGMONOG2, FOREGE, GENBANK, KOSMET, MEDICONF, PHAR'.
ANSWERS FROM THESE FILES WILL BE CONSIDERED UNIQUE
DUPLICATE PREFERENCE IS 'ADISINSIGHT, BIOBUSINESS, BIOSIS, BIOTECHDS, CABA,
CANCERLIT, CAPLUS, CEN, CIN, DGENE, DRUGU, EMBASE, ESBIOBASE, IFIPAT,
JICST-EPLUS, LIFESCI, MEDLINE, NIOSHTIC, PHAR, PHIN, PROMT, SCISEARCH,
TOXLINE,'
KEEP DUPLICATES FROM MORE THAN ONE FILE?  Y/(N):n

PROCESSING IS APPROXIMATELY  40% COMPLETE FOR L3
PROCESSING IS APPROXIMATELY  67% COMPLETE FOR L3
PROCESSING IS APPROXIMATELY  91% COMPLETE FOR L3
PROCESSING COMPLETED FOR L3
L4         2332 DUPLICATE REMOVE L3 (60 DUPLICATES REMOVED)

=> s l4 and py < 1998

'1998' NOT A VALID FIELD CODE
   3 FILES SEARCHED...
   6 FILES SEARCHED...
   8 FILES SEARCHED...
  11 FILES SEARCHED...
  13 FILES SEARCHED...
  16 FILES SEARCHED...
'1998' NOT A VALID FIELD CODE
  27 FILES SEARCHED...
'1998' NOT A VALID FIELD CODE
  34 FILES SEARCHED...
  38 FILES SEARCHED...
'1998' NOT A VALID FIELD CODE
  42 FILES SEARCHED...
```

```
'1998' NOT A VALID FIELD CODE
  47 FILES SEARCHED...
  49 FILES SEARCHED...
  51 FILES SEARCHED...
L5        1195 L4 AND PY < 1998

=> s l5 and (treat? or therap?)

  11 FILES SEARCHED...
  20 FILES SEARCHED...
  28 FILES SEARCHED...
  43 FILES SEARCHED...
  51 FILES SEARCHED...
L6        1143 L5 AND (TREAT? OR THERAP?)

=> l6 and potassium

L6 IS NOT A RECOGNIZED COMMAND
The previous command name entered was not recognized by the system.
For a list of commands available to you in the current file, enter
"HELP COMMANDS" at an arrow prompt (=>).

=> s l6 and potassium

  42 FILES SEARCHED...
L7         730 L6 AND POTASSIUM

=> s l6 and ((potassium (a) channel) (w) (blocker? or antagonist?))

  20 FILES SEARCHED...
  40 FILES SEARCHED...
L8           2 L6 AND ((POTASSIUM (A) CHANNEL) (W) (BLOCKER? OR ANTAGONIST?))


=> d ti


L8   ANSWER 1 OF 2  USPATFULL
TI     Novel benzopyran derivatives


=> s l4 and ((potassium (a) channel) (w) (blocker? or antagonist?))

  18 FILES SEARCHED...
  37 FILES SEARCHED...
  51 FILES SEARCHED...
L9           8 L4 AND ((POTASSIUM (A) CHANNEL) (W) (BLOCKER? OR ANTAGONIST?))


=> d ti tot


L9   ANSWER 1 OF 8  PROMT  COPYRIGHT 2000 Gale Group

TI   Best PIPELINES.

L9   ANSWER 2 OF 8  USPATFULL
TI     Targeted contrast agents for diagnostic and therapeutic use

L9   ANSWER 3 OF 8  USPATFULL
TI     Optoacoustic contrast agents and methods for their use
```

```
L9   ANSWER 4 OF 8  USPATFULL
TI     Therapeutic methods employing disulfide derivatives of dithiocarbamates
       and compositions useful therefor

L9   ANSWER 5 OF 8  USPATFULL
TI     Prodrugs comprising fluorinated amphiphiles

L9   ANSWER 6 OF 8  USPATFULL
TI     Conjugates of dithiocarbamates with pharmacologically active agents and
       uses therefore

L9   ANSWER 7 OF 8  USPATFULL
TI     Novel benzopyran derivatives

L9   ANSWER 8 OF 8  USPATFULL
TI     Benzopyran derivatives


=> d his

     (FILE 'HOME' ENTERED AT 13:24:22 ON 21 DEC 2000)

     FILE 'ADISALERTS, ADISINSIGHT, AGRICOLA, ANABSTR, AQUASCI, BIOBUSINESS,
     BIOCOMMERCE, BIOSIS, BIOTECHDS, BIOTECHNO, CABA, CANCERLIT, CAPLUS,
     CEABA-VTB, CEN, CIN, CONFSCI, CROPB, CROPU, DGENE, DRUGB, DRUGLAUNCH,
     DRUGMONOG2, DRUGNL, DRUGU, EMBAL, EMBASE, ...' ENTERED AT 13:24:40 ON 21
     DEC 2000
L1       258746 S POLYETHYLENE (A) GLYCOL
L2       339730 S ((SPINAL (A) CORD) OR NERU? OR NERV? OR VERTEBR?) AND INJUR?
L3         2392 S L1 AND L2
L4         2332 DUPLICATE REMOVE L3 (60 DUPLICATES REMOVED)
L5         1195 S L4 AND PY < 1998
L6         1143 S L5 AND (TREAT? OR THERAP?)
L7          730 S L6 AND POTASSIUM
L8            2 S L6 AND ((POTASSIUM (A) CHANNEL) (W) (BLOCKER? OR ANTAGONIST
L9            8 S L4 AND ((POTASSIUM (A) CHANNEL) (W) (BLOCKER? OR ANTAGONIST

=> d

L9   ANSWER 1 OF 8  PROMT  COPYRIGHT 2000 Gale Group

ACCESSION NUMBER:   1999:208043  PROMT
TITLE:              Best PIPELINES.
AUTHOR(S):          Engel, Styli
SOURCE:             Med Ad News, (March 1999) Vol. 18, No. 3, pp. 1(1).
                    ISSN: 0745-0907.
PUBLISHER:          Engel Communications, Inc.
DOCUMENT TYPE:      Newsletter
LANGUAGE:           English
WORD COUNT:         41331
                    *FULL TEXT IS AVAILABLE IN THE ALL FORMAT*


=> log h

COST IN U.S. DOLLARS                          SINCE FILE      TOTAL
                                                 ENTRY    SESSION
FULL ESTIMATED COST                             185.21     185.36
```

SESSION WILL BE HELD FOR 60 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 13:54:03 ON 21 DEC 2000
Trying 3106016892...Open

Welcome to STN International! Enter x:x
LOGINID:ssspta1617srh
PASSWORD:
* * * * * * RECONNECTED TO STN INTERNATIONAL * * * * * *
SESSION RESUMED IN FILE 'ADISALERTS, ADISINSIGHT, AGRICOLA, ANABSTR, AQUASCI, BIOBUSINESS, BIOCOMMERCE, BIOSIS, BIOTECHDS, BIOTECHNO, CABA, CANCERLIT, CAPLUS,
CEABA-VTB, CEN, CIN, CONFSCI, CROPB, CROPU, DGENE, DRUGB, DRUGLAUNCH, DRUGMONOG2, DRUGNL, DRUGU, EMBAL, EMBASE, ESBIOBASE, FOMAD, FOREGE, FROSTI, FSTA, GENBANK, HEALSAFE, IFIPAT, JICST-EPLUS, KOSMET, LIFESCI, MEDICONF, MEDLINE, NIOSHTIC, NTIS, OCEAN, PHAR, PHIC, PHIN, PROMT, SCISEARCH, TOXLINE, TOXLIT, USPATFULL, WPIDS' AT 14:02:36 ON 21 DEC 2000
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     DRUGMONOG2, DRUGNL, DRUGU, EMBAL, EMBASE, ...' ENTERED AT 13:24:40 ON 21
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L1        258746 S POLYETHYLENE (A) GLYCOL
L2        339730 S ((SPINAL (A) CORD) OR NERU? OR NERV? OR VERTEBR?) AND INJUR?
L3          2392 S L1 AND L2
L4          2332 DUPLICATE REMOVE L3 (60 DUPLICATES REMOVED)
L5          1195 S L4 AND PY < 1998
L6          1143 S L5 AND (TREAT? OR THERAP?)
L7           730 S L6 AND POTASSIUM
L8             2 S L6 AND ((POTASSIUM (A) CHANNEL) (W) (BLOCKER? OR ANTAGONIST
L9             8 S L4 AND ((POTASSIUM (A) CHANNEL) (W) (BLOCKER? OR ANTAGONIST

=> s (polymethylene or polypropylene or polyethylene or polybutylene or
polypentylene or polyhexylene) (a) glycol

  21 FILES SEARCHED...
  43 FILES SEARCHED...
L10     280353 (POLYMETHYLENE OR POLYPROPYLENE OR POLYETHYLENE OR
POLYBUTYLENE
               OR POLYPENTYLENE OR POLYHEXYLENE) (A) GLYCOL

=> s l10 and l2

L11        2407 L10 AND L2

=> s l11 and ((potassium (a) channel) (w) (blocker? or inhibitor? or
antagonist?))

  12 FILES SEARCHED...
  27 FILES SEARCHED...
  45 FILES SEARCHED...
L12           8 L11 AND ((POTASSIUM (A) CHANNEL) (W) (BLOCKER? OR INHIBITOR?
                OR ANTAGONIST?))

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TI   Best PIPELINES.

L12  ANSWER 2 OF 8  USPATFULL
TI     Targeted contrast agents for diagnostic and therapeutic use

L12  ANSWER 3 OF 8  USPATFULL
TI     Optoacoustic contrast agents and methods for their use

L12  ANSWER 4 OF 8  USPATFULL
TI     Therapeutic methods employing disulfide derivatives of dithiocarbamates
       and compositions useful therefor
```

L12 ANSWER 5 OF 8 USPATFULL
TI Prodrugs comprising fluorinated amphiphiles

L12 ANSWER 6 OF 8 USPATFULL
TI Conjugates of dithiocarbamates with pharmacologically active agents and uses therefore

L12 ANSWER 7 OF 8 USPATFULL
TI Novel benzopyran derivatives

L12 ANSWER 8 OF 8 USPATFULL
TI Benzopyran derivatives

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=> s spinal(w)cord (w) injur?

L1 33831 SPINAL(W) CORD (W) INJUR?

=> s potassium (a) channel? (bloacker? or antagonist?)

MISSING OPERATOR 'CHANNEL? (BLOACKER?'
The search profile that was entered contains terms or
nested terms that are not separated by a logical operator.

=> s potassium (a) channel? (a) (blocker? or antagonist?)

L2 3724 POTASSIUM (A) CHANNEL? (A) (BLOCKER? OR ANTAGONIST?)

=> s polyethylene (a) glycol

L3 101228 POLYETHYLENE (A) GLYCOL

=> s L1 and L2 and L3

L4 0 L1 AND L2 AND L3

=> s L1 and L2

L5 28 L1 AND L2

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L6 19 DUPLICATE REMOVE L5 (9 DUPLICATES REMOVED)

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L1 33831 S SPINAL(W)CORD (W) INJUR?
L2 3724 S POTASSIUM (A) CHANNEL? (A) (BLOCKER? OR ANTAGONIST?)
L3 101228 S POLYETHYLENE (A) GLYCOL
L4 0 S L1 AND L2 AND L3
L5 28 S L1 AND L2
L6 19 DUPLICATE REMOVE L5 (9 DUPLICATES REMOVED)

=> s L1 and L3

L7 24 L1 AND L3

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PROCESSING COMPLETED FOR L7
L8 10 DUPLICATE REMOVE L7 (14 DUPLICATES REMOVED)

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L8 ANSWER 1 OF 10 CAPLUS COPYRIGHT 2000 ACS DUPLICATE 1
TI Immediate recovery from **spinal cord injury** through molecular repair of nerve membranes with **polyethylene glycol**

L8 ANSWER 2 OF 10 CAPLUS COPYRIGHT 2000 ACS DUPLICATE 2
TI Acute repair of crushed guinea pig spinal cord by **polyethylene glycol**

L8 ANSWER 3 OF 10 MEDLINE DUPLICATE 3
TI Functional reconnection of severed mammalian spinal cord axons with **polyethylene glycol**.

L8 ANSWER 4 OF 10 MEDLINE
TI Pilot evaluation of a nurse-administered carepath for successful colonoscopy for persons with **spinal cord injury**.

L8 ANSWER 5 OF 10 MEDLINE DUPLICATE 4
TI **Polyethylene glycol** versus vegetable oil based bisacodyl suppositories to initiate side-lying bowel care: a clinical trial in persons with **spinal cord injury**.

L8 ANSWER 6 OF 10 MEDLINE DUPLICATE 5
TI Pharmacologically initiated defecation for persons with **spinal cord injury**: effectiveness of three agents.

L8 ANSWER 7 OF 10 MEDLINE
TI Improved bowel care with a **polyethylene glycol** based bisacadyl suppository.

L8 ANSWER 8 OF 10 MEDLINE
TI Nursing management of pressure ulcers using a hydrogel dressing protocol: four case studies.

L8 ANSWER 9 OF 10 MEDLINE DUPLICATE 6
TI Reduction in bowel program duration with **polyethylene glycol** based bisacodyl suppositories.

L8 ANSWER 10 OF 10 MEDLINE DUPLICATE 7
TI Reducing postischemic paraplegia using conjugated superoxide dismutase.

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L8 ANSWER 1 OF 10 CAPLUS COPYRIGHT 2000 ACS DUPLICATE 1
ACCESSION NUMBER: 2000:51638 CAPLUS
DOCUMENT NUMBER: 132:203028
TITLE: Immediate recovery from **spinal cord injury** through molecular repair of nerve membranes with **polyethylene glycol**
AUTHOR(S): Borgens, Richard B.; Shi, Riyi
CORPORATE SOURCE: Center for Paralysis Research, Department of Basic Medical Sciences, School of Veterinary Medicine, Purdue University, West Lafayette, IN, 47907, USA
SOURCE: FASEB J. (2000), 14(1), 27-35
CODEN: FAJOEC; ISSN: 0892-6638
PUBLISHER: Federation of American Societies for Experimental Biology
DOCUMENT TYPE: Journal
LANGUAGE: English
AB A brief application of the hydrophilic polymer **polyethylene glycol** (PEG) swiftly repairs nerve membrane damage assocd. with severe **spinal cord injury** in adult guinea pigs. A 2 min application of PEG to a standardized compression injury to the cord immediately reversed the loss of nerve impulse conduction through the injury in all treated animals while nerve impulse conduction remained absent in all sham-treated guinea pigs. Physiol. recovery was assocd. with a significant recovery of a quantifiable spinal cord dependent behavior in only PEG-treated animals. The application of PEG could be delayed for .apprx.8 h without adversely affecting physiol. and behavioral recovery which continued to improve for up to 1 mo after PEG treatment.
REFERENCE COUNT: 39
REFERENCE(S): (1) Ahkong, Q; J Cell Sci 1987, V88, P389 CAPLUS
(15) Davidson, R; Somat Cell Genet 1976, V2, P271 CAPLUS
(18) Hannig, J; Int J Radiat Biol 1999, V75, P379 CAPLUS
(20) Lee, J; Biochemistry 1997, V36, P6251 CAPLUS
(22) Lee, R; Proc Natl Acad Sci USA 1992, V89, P4524 CAPLUS
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L8 ANSWER 2 OF 10 CAPLUS COPYRIGHT 2000 ACS DUPLICATE 2
ACCESSION NUMBER: 1999:376637 CAPLUS
DOCUMENT NUMBER: 131:179700
TITLE: Acute repair of crushed guinea pig spinal cord by **polyethylene glycol**
AUTHOR(S): Shi, Riyi; Borgens, Richard B.
CORPORATE SOURCE: Center for Paralysis Research, Department of Basic Medical Sciences, Purdue University, West Lafayette, IN, 47907, USA
SOURCE: J. Neurophysiol. (1999), 81(5), 2406-2414
CODEN: JONEA4; ISSN: 0022-3077
PUBLISHER: American Physiological Society
DOCUMENT TYPE: Journal
LANGUAGE: English
AB We have studied the responses of adult guinea pig spinal cord white matter to a standardized compression within a sucrose gap recording chamber.

This injury eliminated compd. action potential (CAP) conduction through the lesion, followed by little or no recovery of conduction by 1 h postinjury. We tested the ability of **polyethylene glycol** (PEG) to repair the injured axons and restore physiol. function. Local application of PEG (1,800 MW, 50% by wt. in water) for .apprx.2 min restored CAP conduction through the injury as early as 1 min post PEG application. The recovery of the CAP .ltoreq.1 h was significantly greater in treated compared with control spinal cords (controls = 3.6% of the preinjury amplitude; PEG treated = 19%; P < 0.0001, unpaired Student's t-test). Stimulus-response anal. indicated that the susceptibility for recovery was similar for all calibers of axons after PEG application. The enhanced recovery of conduction after PEG treatment was assocd. with an early alteration in conduction properties relative to control spinal cords. This included increased refractoriness and sensitivity to potassium channel blockade using 4-aminopyridine (4-AP). Normally 4-AP enhanced the amplitude of the recovering CAPs by .apprx.40% in control spinal cords, however this effect was nearly doubled to .apprx.72% in PEG treated spinal cords. Because severe clin. injuries to the spinal cord (and some peripheral nerves) are both resistant to medical treatment and usually produced by compression, we discuss the possible clin. benefits of PEG application.

REFERENCE COUNT: 30

REFERENCE(S):
(1) Ahkong, Q; J Cell Sci 1987, V88, P389 CAPLUS
(3) Bittner, G; Brain Res 1986, V367, P351 CAPLUS
(5) Blight, A; Brain Res Bull 1989, V22, P47 CAPLUS
(8) Borgens, R; Proc Natl Acad Sci USA 1980, V77, P1209 CAPLUS
(9) Davidson, R; Somat Cell Genet 1976, V2, P271 CAPLUS

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L8 ANSWER 3 OF 10 MEDLINE DUPLICATE 3

ACCESSION NUMBER: 1999439264 MEDLINE
DOCUMENT NUMBER: 99439264

TITLE: Functional reconnection of severed mammalian spinal cord axons with **polyethylene glycol**.

AUTHOR: Shi R; Borgens R B; Blight A R
CORPORATE SOURCE: Center for Paralysis Research, Department of Basic Medical Sciences, Purdue University, West Lafayette, Indiana, USA.

SOURCE: JOURNAL OF NEUROTRAUMA, (1999 Aug) 16 (8) 727-38.
Journal code: J82. ISSN: 0897-7151.
PUB. COUNTRY: United States
Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 200001
ENTRY WEEK: 20000104

AB We describe a technique using the water-soluble polymer **polyethylene glycol** (PEG) to reconnect the two segments of completely transected mammalian spinal axons within minutes. This was accomplished by fusing completely severed strips of isolated guinea pig thoracic white matter maintained in vitro in a double sucrose gap recording chamber. The faces of the severed segments were pressed together, and PEG (MW 1,400-3,500 d; approximately 50% by weight in distilled water) was applied directly to this region through a micropipette and removed by aspiration within 2 min. Successful fusion was documented by the immediate restored conduction of compound action

potentials through the original transection and by the variable numbers of fused axons in which anatomical continuity was shown to be restored by high-resolution light microscopy and by the diffusion of intracellular fluorescent dyes through fused axons. These data support the conclusion that some severed and subsequently PEG-fused spinal axons both demonstrate restored anatomical continuity and also are physiologically competent to conduct action potentials. This work adds to our previous demonstration that PEG application can immediately repair severely crushed, rather than cut, spinal cord white matter, and may lead to novel treatments for acute trauma to the central and peripheral nervous systems.

L8 ANSWER 4 OF 10 MEDLINE
ACCESSION NUMBER: 1999276887 MEDLINE
DOCUMENT NUMBER: 99276887
TITLE: Pilot evaluation of a nurse-administered carepath for successful colonoscopy for persons with **spinal cord injury**.
AUTHOR: Barber D B; Rogers S J; Chen J T; Gulledge D E; Able A C
CORPORATE SOURCE: Spinal Cord Injury Center, South Texas Veterans Health Care System, USA.
SOURCE: SCI NURSING, (1999 Mar) 16 (1) 14-5, 20.
Journal code: UFY. ISSN: 0888-8299.
PUB. COUNTRY: United States
Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Nursing Journals; Nursing
ENTRY MONTH: 200009
ENTRY WEEK: 20000902
AB Due to ongoing improvements in medical care, the life expectancy of persons with **spinal cord injury** (SCI) continues to improve and approach that of the able-bodied population. As the SCI population ages, cancer would be expected to increase as a cause of death. When a patient presents with occult fecal blood and anemia, colonscopy to the cecum is often pursued. It has been our experience that 80 percent of patients are found to have inadequate bowel preps resulting in suboptimal colonoscopy when the prep is attempted at home. Because of this, we developed a nurse-administered carepath necessitating a 48-hour admission for bowel prep and colonoscopy. The bowel prep consists of magnesium citrate, **polyethylene glycol**-electrolyte solution, and sodium phosphate/biphosphate enemas. Throughout hospitalization, the patient receives a clear liquid diet. Eighteen patients have been placed on the carepath. At the time of colonoscopy, all 18 were noted to have received an acceptable bowel prep allowing vizualization to the cecum. A description of the carepath and its benefits is presented.

L8 ANSWER 5 OF 10 MEDLINE DUPLICATE 4
ACCESSION NUMBER: 1999063232 MEDLINE
DOCUMENT NUMBER: 99063232
TITLE: **Polyethylene glycol** versus vegetable oil based bisacodyl suppositories to initiate side-lying bowel care: a clinical trial in persons with **spinal cord injury**.
AUTHOR: Stiens S A; Luttrel W; Binard J E
CORPORATE SOURCE: VA Puget Sound Health Care System, Department of Rehabilitation Medicine, University of Washington, Seattle

98195, USA.
SOURCE: SPINAL CORD, (1998 Nov) 36 (11) 777-81.
Journal code: CKK. ISSN: 1362-4393.
PUB. COUNTRY: ENGLAND: United Kingdom
(CLINICAL TRIAL)
(CONTROLLED CLINICAL TRIAL)
Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 199904
ENTRY WEEK: 19990402
AB INTRODUCTION: Neurogenic bowel dysfunction resulting from **spinal cord injury** (SCI) frequently requires bowel care (BC) with stimulant suppositories for initiation of effective defecation. The excessive time required for BC and bowel complications have limited quality of life after SCI. OBJECTIVE: To test the hypothesis that: the time required for bowel care with bisacodyl suppositories can be reduced by substituting a **polyethylene glycol** base (PGB) for the traditional hydrogenated vegetable oil base (HVB) in the suppository. SETTING: Inpatient SCI medicine unit. SUBJECTS: Fourteen persons with SCI with chronic stable paralysis from upper motor neuron SCI for greater than one year with a stable HVB bisacodyl suppository initiated BC. DESIGN: Crossover Controlled. METHOD: Subjects received HVB bisacodyl suppositories for six sequential BC sessions and then were crossed over to PGB bisacodyl suppositories for six more BCs. OUTCOME MEASURES: BC event times were utilized to derive BC intervals: suppository insertion to first flatus= Time to flatus, first flatus until the beginning of stool flow = Flatus to stool flow, begin stool flow until end stool flow = Defecation period, end stool flow until end of clean up = Clean up, and suppository insertion until end clean up = Total bowel care time. RESULTS: The data included two groups of BC sessions: HVB (n = 84) and PGB (n = 81). Mean times in minutes and P values from t tests for paired samples yielded: Time to flatus: (HVB 31, PGB 12.8 P < 0.002), Defecation period: (HVB 58, PGB 32, P < 0.0005), Clean up: (HVB 1.9, PGB 3.2 P = 0.165), Total bowel care time: (HVB 102, PGB 51.2 P < 0.0005). CONCLUSION: This analysis suggests that PGB based bisacodyl suppositories may stimulate reflex defecation sooner and shorten the Total BC Time as compared with HVB bisacodyl suppositories.

L8 ANSWER 6 OF 10 MEDLINE DUPLICATE 5
ACCESSION NUMBER: 97480455 MEDLINE
DOCUMENT NUMBER: 97480455
TITLE: Pharmacologically initiated defecation for persons with **spinal cord injury**: effectiveness of three agents.
AUTHOR: House J G; Stiens S A
CORPORATE SOURCE: Department of Physical Medicine and Rehabilitation, Baylor College of Medicine, Houston, TX, USA.
SOURCE: ARCHIVES OF PHYSICAL MEDICINE AND REHABILITATION, (1997 Oct) 78 (10) 1062-5.
Journal code: 8BK. ISSN: 0003-9993.
PUB. COUNTRY: United States
(CLINICAL TRIAL)
Journal; Article; (JOURNAL ARTICLE)
(RANDOMIZED CONTROLLED TRIAL)
LANGUAGE: English
FILE SEGMENT: Abridged Index Medicus Journals; Priority Journals
ENTRY MONTH: 199801

ENTRY WEEK: 19980104
AB OBJECTIVE: To compare the effectiveness of hydrogenated vegetable oil-based bisacodyl (HVB) suppositories, **polyethylene glycol**-based bisacodyl (PGB) suppositories, and **polyethylene glycol**-based, glycerine, docusate sodium mini-enemas (TVC) in subjects with upper motor neuron spinal cord lesions.
STUDY DESIGN: Prospective randomized double blind. Fifteen subjects received one of 3 HVB and 3 PGB suppositories in randomized sequence for each of six scheduled bowel care sessions. Additionally, 10 subjects received 3 TVC. The analysis used timed events that divided the bowel care
sessions into discrete intervals. The analysis also compared digital simulations, incontinence, and quantity of stool. Wilcoxon rank sum tests and paired t tests were used to compare the means of intervals during bowel care initiated by HVB, PGB, and TVC. RESULTS: (means in minutes and p values): Time to Flatus-HVB, 32; PGB, 15; TVC, 15; $p < .026$, HVB-PGB; $p < .983$, PGB-TVC; Flatus to Stool Flow-HVB, 6.7; PGB, 5.5; TVC, 3.9; $p < .672$, HVB-PGB; $p < .068$, PGB-TVC; Defecation Period-HVB, 36; PGB, 20; TVC,
17; $p < .037$, HVB-PGB; $p < .479$, PGB-TVC; Wait Until Transfer-HVB, 10.9; PGB, 10.7; TVC, 7.4; $p < .932$, HVB-PGB; $p < .043$, PGB-TVC; Total Time for the bowel program-HVB, 74.5; PGB, 43; TVC, 37; $p < .010$, HVB-PGB; $p < .458$, PGB-TVC; percent incidence of incontinence between bowel care sessions-HVB, .067; PGB, .067; TVC, .033; $p < 1.0$, HVB-PGB; $p < .678$, PGB-TVC; amount of stool produced-HVB, 3.30; PGB, 3.49; TVC, 3.38; $p < .276$, HVB-PGB; $p < .630$, PGB-TVC; average number of digital stimulations per bowel care procedure-HVB, 4.4; PGB, 4.1; TVC, 3.8; $p < .411$, HVB-PGB; $p < .293$, PGB-TVC; time per digital stimulation in seconds-HVB, 107; PGB, 40; TVC, 83; $p < .149$, HVB-PGB; $p < .352$, PGB-TVC; and the total time, in minutes, spent performing digital stimulations during bowel care-HVB, 10.0; PGB, 2.7; TVC, 5.9; $p < .151$, HVB-PGB; $p < .325$, PGB-TVC.
CONCLUSION: Bowel care took less time when initiated with the PGB bisacodyl suppository or TVC mini-enema as compared with the HVB bisacodyl
suppository ($p < .01$).

L8 ANSWER 7 OF 10 MEDLINE
ACCESSION NUMBER: 97289828 MEDLINE
DOCUMENT NUMBER: 97289828
TITLE: Improved bowel care with a **polyethylene glycol** based bisacadyl suppository.
AUTHOR: Frisbie J H
CORPORATE SOURCE: Spinal Cord Injury Services, Department of Veterans Affairs
Medical Center, Brockton, MA, USA.
SOURCE: JOURNAL OF SPINAL CORD MEDICINE, (1997 Apr) 20 (2) 227-9.

Journal code: B5U. ISSN: 1079-0268.
PUB. COUNTRY: United States
Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 199710
ENTRY WEEK: 19971001
AB To test its effectiveness for bowel care in myopathy patients, a bisacodyl
suppository based in **polyethylene glycol** (PEGBS) was compared with a conventional bisacodyl suppository based in hydrogenated vegetable oil (HVOBS). Nineteen patients with upper motor neuron paralysis

received 57 HVOBS and 114 PEGBS trials in a crossover design. The average time for complete bowel evacuation was 2.4 (range 1.0 to 4.5) hours with HVOBS and 1.1 (range 0.3 to 1.8) hours with PEGBS. Three patients later discontinued the PEGBS because of cramps or fecal incontinence. The remaining 16 patients continued to use PEGBS for three years and 15 reported a sustained savings in time. It is concluded that the replacement of HVOBS with PEGBS will reduce bowel care time in myelopathy patients by about half.

L8 ANSWER 8 OF 10 MEDLINE
ACCESSION NUMBER: 97022393 MEDLINE
DOCUMENT NUMBER: 97022393
TITLE: Nursing management of pressure ulcers using a hydrogel dressing protocol: four case studies.
AUTHOR: Whittle H; Fletcher C; Hoskin A; Campbell K
SOURCE: REHABILITATION NURSING, (1996 Sep-Oct) 21 (5) 239-42. Journal code: R25. ISSN: 0278-4807.
PUB. COUNTRY: United States
Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Nursing Journals; Nursing
ENTRY MONTH: 199701
ENTRY WEEK: 19970104
AB People with **spinal cord injury** (SCI) are at risk for developing pressure ulcers throughout their lives. Pressure ulcers can lead to significant morbidity, prolonged hospitalization, and diminished quality of life. Rehabilitation nurses play a vital role in preventing and treating pressure ulcers in these clients. In this article, the authors describe four case studies of clients with SCI who have pressure ulcers and discuss the implementation and outcome of a nursing management protocol based on the use of hydrogel dressings. These dressings have been found to promote wound healing, protect against contamination and infection, and reduce pain. They also are usually acceptable to the client and are cost-effective. Hydrogel dressings should be considered as one component of an individualized plan of care for the development of pressure ulcers.

L8 ANSWER 9 OF 10 MEDLINE DUPLICATE 6
ACCESSION NUMBER: 95328936 MEDLINE
DOCUMENT NUMBER: 95328936
TITLE: Reduction in bowel program duration with **polyethylene glycol** based bisacodyl suppositories.
AUTHOR: Stiens S A
CORPORATE SOURCE: Veterans Affairs Medical Center SCI Service, Seattle, WA, USA..
SOURCE: ARCHIVES OF PHYSICAL MEDICINE AND REHABILITATION, (1995 Jul) 76 (7) 674-7. Journal code: 8BK. ISSN: 0003-9993.
PUB. COUNTRY: United States
(CLINICAL TRIAL)
Journal; Article; (JOURNAL ARTICLE)
(RANDOMIZED CONTROLLED TRIAL)
LANGUAGE: English
FILE SEGMENT: Abridged Index Medicus Journals; Priority Journals
ENTRY MONTH: 199510
AB The neurogenic bowel caused by **spinal cord injury** frequently requires a bowel program (BP) with stimulant

suppositories for effective defecation. OBJECTIVE: The effectiveness of bowel programs initiated by hydrogenated vegetable oil based bisacodyl (HVB) suppositories was compared with that of **polyethylene glycol** based bisacodyl suppositories (PGB). DESIGN: Single subject, randomized treatment. SETTING: Outpatient. SUBJECT: Chronic T2 complete **spinal cord injury** (SCI).
INTERVENTION: The suppository for the every third-day BP was randomized to
PGB or HVB. The times in minutes of the following BP events were recorded:
suppository insertion, first flatus, begin stool flow, end stool flow, and
transfer off toilet. OUTCOME MEASURES: BP event times were used to derive BP intervals: suppository insertion to first flatus = Time to Flatus, first flatus until begin stool flow = Flatus to Stool Flow, begin stool flow until end stool flow = Defecation Period, end stool flow until the transfer off the toilet = Wait Until Transfer, and suppository insertion until transfer off the toilet = Total BP Time. The number of digital stimulations required and the amount of stool results were recorded. RESULTS: The data included two groups of BPs: HVB (N = 13) and PGB (N = 13). Wilcoxon's rank sum tests were used to compare mean times for each of
the BP intervals: Time to Flatus (HVB 37 minutes, PGB 10 minutes, p < .0001), Flatus to Stool Flow (HVB 6.0 minutes, PGB 5.9 minutes, p = .9578), and the Defecation Period (HVB 31, PGB 21, p = .0043).(ABSTRACT TRUNCATED AT 250 WORDS)

L8 ANSWER 10 OF 10 MEDLINE DUPLICATE 7
ACCESSION NUMBER: 91247923 MEDLINE
DOCUMENT NUMBER: 91247923
TITLE: Reducing postischemic paraplegia using conjugated superoxide dismutase.
AUTHOR: Agee J M; Flanagan T; Blackbourne L H; Kron I L; Tribble C G
CORPORATE SOURCE: Department of Surgery, University of Virginia Health Sciences Center, Charlottesville..
SOURCE: ANNALS OF THORACIC SURGERY, (1991 Jun) 51 (6) 911-4; discussion 914-5.
Journal code: 683. ISSN: 0003-4975.
PUB. COUNTRY: United States
Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Abridged Index Medicus Journals; Priority Journals
ENTRY MONTH: 199109
AB Paraplegia after thoracic aortic aneurysm repair has an incidence of 2.2% to 24%. Oxygen-derived free radicals after reperfusion of an ischemic spinal cord may be partly responsible for neuronal destruction. We studied
the effects of **polyethylene glycol**-conjugated superoxide dismutase (PEG-SOD), a free radical scavenger, as a way of increasing spinal cord tolerance to ischemia. Thirty rabbits underwent 40 minutes of aortic occlusion (a known model of paraplegia). Ten of these animals received 25,000 U/kg of PEG-SOD 24 hours before aortic occlusion and two additional doses of 10,000 U/kg, one before and one subsequent to spinal ischemia. Ten animals received superoxide dismutase in the same dosages as those receiving PEG-SOD. Ten control animals received placebo. All animals were studied for 96 hours, at which time a final neurological examination was performed and the results were recorded. Of the 10 animals
treated with PEG-SOD, 2 were completely paralyzed whereas 8 had less (7) or no (1) neurological impairment. Eight of the 10 control animals and 9

of the 10 animals receiving superoxide dismutase were completely paralyzed. None of the control animals or animals receiving superoxide dismutase had a normal neurological examination (p less than or equal to 0.05). Treatment with PEG-SOD before and during occlusion increased the rabbit spinal cord tolerance to a 40-minute ischemic insult. Scavenging free radicals may lessen experimental **spinal cord injury**.

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(FILE 'HOME' ENTERED AT 11:17:05 ON 21 DEC 2000)

FILE 'CAPLUS, MEDLINE, BIOSIS, EMBASE' ENTERED AT 11:17:30 ON 21 DEC 2000

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L1         33831 S SPINAL(W)CORD (W) INJUR?
L2          3724 S POTASSIUM (A) CHANNEL? (A) (BLOCKER? OR ANTAGONIST?)
L3        101228 S POLYETHYLENE (A) GLYCOL
L4             0 S L1 AND L2 AND L3
L5            28 S L1 AND L2
L6            19 DUPLICATE REMOVE L5 (9 DUPLICATES REMOVED)
L7            24 S L1 AND L3
L8            10 DUPLICATE REMOVE L7 (14 DUPLICATES REMOVED)
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=> d ti 16 tot

L6 ANSWER 1 OF 19 CAPLUS COPYRIGHT 2000 ACS
TI .kappa.A-Conopeptides for blocking potassium channels

L6 ANSWER 2 OF 19 BIOSIS COPYRIGHT 2000 BIOSIS
TI Abnormal axonal physiology is associated with altered expression and distribution of Kv1.1 and Kv1.2 K+ channels after chronic **spinal cord injury**.

L6 ANSWER 3 OF 19 BIOSIS COPYRIGHT 2000 BIOSIS
TI Rebuilding the spine: Acorda Therapeutics, Inc.

L6 ANSWER 4 OF 19 BIOSIS COPYRIGHT 2000 BIOSIS
TI Sustained improvements in neurological function in **spinal cord injured** patients treated with oral 4-aminopyridine: Three cases.

L6 ANSWER 5 OF 19 BIOSIS COPYRIGHT 2000 BIOSIS
TI Role of potassium channels in axonal dysfunction after **spinal cord injury**: Molecular and electrophysiological evidence.

L6 ANSWER 6 OF 19 BIOSIS COPYRIGHT 2000 BIOSIS
TI Effect of 4-aminopyridine and single-dose methylprednisolone on functional recovery after a chronic **spinal cord injury**.

L6 ANSWER 7 OF 19 CAPLUS COPYRIGHT 2000 ACS
TI Differential effects of low and high concentrations of 4-aminopyridine on axonal conduction in normal and injured spinal cord

L6 ANSWER 8 OF 19 CAPLUS COPYRIGHT 2000 ACS DUPLICATE 1
TI Conduction block in acute and chronic **spinal cord injury**: different dose-response characteristics for reversal by 4-aminopyridine

L6 ANSWER 9 OF 19 BIOSIS COPYRIGHT 2000 BIOSIS
TI 4-Aminopyridine improves pulmonary function in quadriplegic humans with longstanding **spinal cord injury**.

L6 ANSWER 10 OF 19 BIOSIS COPYRIGHT 2000 BIOSIS
TI Effects of 4-aminopyridine on motor evoked potentials in patients with **spinal cord injury**.

L6 ANSWER 11 OF 19 CAPLUS COPYRIGHT 2000 ACS DUPLICATE 2
TI Changes in pharmacological sensitivity of the spinal cord to **potassium channel blockers** following acute **spinal cord injury**

L6 ANSWER 12 OF 19 BIOSIS COPYRIGHT 2000 BIOSIS
TI 4-Aminopyridine: Six years experience and progress in **spinal cord injury**.

L6 ANSWER 13 OF 19 CAPLUS COPYRIGHT 2000 ACS
TI Correlation between electrophysiological effects of mexiletine and ischemic protection in central nervous system white matter

L6 ANSWER 14 OF 19 MEDLINE DUPLICATE 3
TI Effect of 4-aminopyridine in acute **spinal cord injury**.

L6 ANSWER 15 OF 19 BIOSIS COPYRIGHT 2000 BIOSIS
TI Plasma and cerebrospinal fluid concentrations of 4-aminopyridine following intravenous injection and metered intrathecal delivery in canines.

L6 ANSWER 16 OF 19 CAPLUS COPYRIGHT 2000 ACS
TI Charybdotoxin and peptide fragment for ischemia, hypoxia, or injury therapy

L6 ANSWER 17 OF 19 BIOSIS COPYRIGHT 2000 BIOSIS
TI THE EFFECTS OF 4 AMINOPYRIDINE ON NEUROLOGICAL DEFICITS IN CHRONIC CASES OF TRAUMATIC **SPINAL CORD INJURY** IN DOGS A PHASE I CLINICAL TRIAL.

L6 ANSWER 18 OF 19 MEDLINE DUPLICATE 4
TI Augmentation by 4-aminopyridine of vestibulospinal free fall responses in chronic spinal-injured cats.

L6 ANSWER 19 OF 19 BIOSIS COPYRIGHT 2000 BIOSIS
TI A NEW PHARMACOLOGIC APPROACH TO **SPINAL CORD INJURY** STUDY USING A DYNAMIC INJURY MODEL IN RATS.

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In a multifile environment, a format can only be used if it is valid in at least one of the files. Refer to file specific help messages or the STNGUIDE file for information on formats available in individual files.
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L6 ANSWER 1 OF 19 CAPLUS COPYRIGHT 2000 ACS
ACCESSION NUMBER: 2000:240971 CAPLUS

DOCUMENT NUMBER: 132:288778
TITLE: .kappa.A-Conopeptides for blocking potassium channels
INVENTOR(S): Layer, Richard T.; Pemberton-Goodman, Karen E.; Jones,
Robert M.; Garrett, James L.; Olivera, Baldomero M.; Mcintosh, J. Michael; Hillyard, David R.; Grilley, Michelle; Watkins, Maren; Santos, Ameurfina D.; Zafaralla, Glenn; Craig, A. Grey
PATENT ASSIGNEE(S): Cognetix, Inc., USA; University of Utah Research Foundation; Salk Institute
SOURCE: PCT Int. Appl., 103 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000020018	A1	20000413	WO 1999-US23218	19991006
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
AU 9964159	A1	20000426	AU 1999-64159	19991006
PRIORITY APPLN. INFO.:			US 1998-103247	19981006
			WO 1999-US23218	19991006

OTHER SOURCE(S): MARPAT 132:288778
REFERENCE COUNT: 5
REFERENCE(S):
(1) Craig; Biochemistry 1998, V37(46), P16019 CAPLUS
(2) Moczydlowski; J Membrane Biology 1988, V105(2), P95 CAPLUS
(3) Norton; Toxicon 1998, V36(11), P1573 CAPLUS
(4) Olivera; US 5633347 A 1997 CAPLUS
(5) Terlau; US 5672682 A 1997 CAPLUS

L6 ANSWER 2 OF 19 BIOSIS COPYRIGHT 2000 BIOSIS
ACCESSION NUMBER: 2000:185603 BIOSIS
DOCUMENT NUMBER: PREV200000185603
TITLE: Abnormal axonal physiology is associated with altered expression and distribution of Kv1.1 and Kv1.2 K+ channels after chronic **spinal cord injury.**
AUTHOR(S): Nashmi, Raad; Jones, Owen T.; Fehlings, Michael G. (1)
CORPORATE SOURCE: (1) Division of Neurosurgery, University of Toronto, 399 Bathurst St., Toronto, M5T 2S8 Canada
SOURCE: European Journal of Neuroscience, (Feb., 2000) Vol. 12, No. 2, pp. 491-506.
ISSN: 0953-816X.
DOCUMENT TYPE: Article
LANGUAGE: English
SUMMARY LANGUAGE: English

L6 ANSWER 3 OF 19 BIOSIS COPYRIGHT 2000 BIOSIS
ACCESSION NUMBER: 2000:93117 BIOSIS

DOCUMENT NUMBER: PREV200000093117
TITLE: Rebuilding the spine: Acorda Therapeutics, Inc.
AUTHOR(S): Wells, William A. (1)
CORPORATE SOURCE: (1) 1095 Market Street No. 516, San Francisco, CA, 94103-1628 USA
SOURCE: Chemistry & Biology (London), (Jan., 2000) Vol. 7, No. 1, pp. R24-R25.
ISSN: 1074-5521.
DOCUMENT TYPE: Article
LANGUAGE: English

L6 ANSWER 4 OF 19 BIOSIS COPYRIGHT 2000 BIOSIS
ACCESSION NUMBER: 1998:216930 BIOSIS
DOCUMENT NUMBER: PREV199800216930
TITLE: Sustained improvements in neurological function in **spinal cord injured** patients treated with oral 4-aminopyridine: Three cases.
AUTHOR(S): Potter, P. J. (1); Hayes, K. C.; Hsieh, J. T. C.; Delaney, G. A.; Segal, J. L.
CORPORATE SOURCE: (1) Dep. Physical Med. Rehabil., Parkwood Hosp., Univ. West. Ont., London, ON Canada
SOURCE: Spinal Cord, (March, 1998) Vol. 36, No. 3, pp. 147-155.
ISSN: 1362-4393.
DOCUMENT TYPE: Article
LANGUAGE: English

L6 ANSWER 5 OF 19 BIOSIS COPYRIGHT 2000 BIOSIS
ACCESSION NUMBER: 1998:156194 BIOSIS
DOCUMENT NUMBER: PREV199800156194
TITLE: Role of potassium channels in axonal dysfunction after **spinal cord injury**: Molecular and electrophysiological evidence.
AUTHOR(S): Nashmi, R.; Fehlings, M. G.; Mutsaers, L.; Ackerley, C. A.; Becker, L. E.; Jones, O. T.; Scales, K.; Khanna, R.; Jugloff, D. G. M.
CORPORATE SOURCE: Playfair Neurosci. Unit, Toronto Hosp. Res. Inst., Univ. Toronto, Toronto, ON M5T 2S8 Canada
SOURCE: Journal of Neurotrauma, (Jan., 1998) Vol. 15, No. 1, pp. 21.
Meeting Info.: 4th International Neurotrauma Symposium Seoul, South Korea August 23-26, 1997
ISSN: 0897-7151.
DOCUMENT TYPE: Conference
LANGUAGE: English

L6 ANSWER 6 OF 19 BIOSIS COPYRIGHT 2000 BIOSIS
ACCESSION NUMBER: 1998:126292 BIOSIS
DOCUMENT NUMBER: PREV199800126292
TITLE: Effect of 4-aminopyridine and single-dose methylprednisolone on functional recovery after a chronic **spinal cord injury**.
AUTHOR(S): Haghighi, Siavash S. (1); Clapper, Adam; Johnson, Gayle C.; Stevens, Amy; Prapaisilp, Arisa
CORPORATE SOURCE: (1) Div. Neurosurg., Dep. Surg., Univ. Nebraska Med. Center, Omaha, NE USA
SOURCE: Spinal Cord, (Jan., 1998) Vol. 36, No. 1, pp. 6-12.
ISSN: 1362-4393.
DOCUMENT TYPE: Article
LANGUAGE: English

L6 ANSWER 7 OF 19 CAPLUS COPYRIGHT 2000 ACS
ACCESSION NUMBER: 1997:166767 CAPLUS
DOCUMENT NUMBER: 126:258964
TITLE: Differential effects of low and high concentrations of 4-aminopyridine on axonal conduction in normal and injured spinal cord
AUTHOR(S): Shi, R.; Blight, A. R.
CORPORATE SOURCE: Division Neurosurgery, University North Carolina Chapel Hill, Chapel Hill, NC, 27599-7060, USA
SOURCE: Neuroscience (Oxford) (1997), 77(2), 553-562
CODEN: NRSCDN; ISSN: 0306-4522
PUBLISHER: Elsevier
DOCUMENT TYPE: Journal
LANGUAGE: English

L6 ANSWER 8 OF 19 CAPLUS COPYRIGHT 2000 ACS DUPLICATE 1
ACCESSION NUMBER: 1998:37847 CAPLUS
DOCUMENT NUMBER: 128:188543
TITLE: Conduction block in acute and chronic **spinal cord injury**: different dose-response characteristics for reversal by 4-aminopyridine
AUTHOR(S): Shi, Riyi; Kelly, Thomas M.; Blight, Andrew R.
CORPORATE SOURCE: Division of Neurosurgery, University of North Carolina at Chapel Hill, Chapel Hill, NC, 27599, USA
SOURCE: Exp. Neurol. (1997), 148(2), 495-501
CODEN: EXNEAC; ISSN: 0014-4886
PUBLISHER: Academic Press
DOCUMENT TYPE: Journal
LANGUAGE: English

L6 ANSWER 9 OF 19 BIOSIS COPYRIGHT 2000 BIOSIS
ACCESSION NUMBER: 1997:300778 BIOSIS
DOCUMENT NUMBER: PREV199799599981
TITLE: 4-Aminopyridine improves pulmonary function in quadriplegic humans with longstanding **spinal cord injury**.
AUTHOR(S): Segal, Jac L. (1); Brunnemann, Sherry R.
CORPORATE SOURCE: (1) Dep. Veterans Affairs Med. Center, 5901 East Seventh St., Long Beach, CA 90822 USA
SOURCE: Pharmacotherapy, (1997) Vol. 17, No. 3, pp. 415-423.
ISSN: 0277-0008.
DOCUMENT TYPE: Article
LANGUAGE: English

L6 ANSWER 10 OF 19 BIOSIS COPYRIGHT 2000 BIOSIS
ACCESSION NUMBER: 1997:255739 BIOSIS
DOCUMENT NUMBER: PREV199799554942
TITLE: Effects of 4-aminopyridine on motor evoked potentials in patients with **spinal cord injury**.
AUTHOR(S): Qiao, J.; Hayes, K. C.; Hsieh, J. T. C.; Potter, P. J.; Delaney, G. A.
CORPORATE SOURCE: Parkwood Hosp., 801 Commissioners Rd. East, London, ON N6C 5J1 Canada
SOURCE: Journal of Neurotrauma, (1997) Vol. 14, No. 3, pp. 135-149.
ISSN: 0897-7151.

DOCUMENT TYPE: Article
LANGUAGE: English

L6 ANSWER 11 OF 19 CAPLUS COPYRIGHT 2000 ACS DUPLICATE 2
ACCESSION NUMBER: 1996:608996 CAPLUS
DOCUMENT NUMBER: 125:316976
TITLE: Changes in pharmacological sensitivity of the spinal cord to **potassium channel blockers** following acute **spinal cord injury**
AUTHOR(S): Fehlings, Michael G.; Nashmi, Raad
CORPORATE SOURCE: Playfair Neuroscience Unit, The Toronto Hospital Research Institute, University of Toronto, The Toronto Hospital, Toronto Western Division, Suite 12-411, McLaughlin Pavilion, 399 Bathurst St., Toronto, ON, M5T 2S8, Can.
SOURCE: Brain Res. (1996), 736(1,2), 135-145
CODEN: BRREAP; ISSN: 0006-8993
DOCUMENT TYPE: Journal
LANGUAGE: English

L6 ANSWER 12 OF 19 BIOSIS COPYRIGHT 2000 BIOSIS
ACCESSION NUMBER: 1996:445857 BIOSIS
DOCUMENT NUMBER: PREV199699168213
TITLE: 4-Aminopyridine: Six years experience and progress in **spinal cord injury**.
AUTHOR(S): Potter, P. J.; Hayes, K. C.; Hsieh, J. T. C.; Delaney, G. A.; Wolfe, D. L.
CORPORATE SOURCE: Dep. Physical Med. Rehabilitation, Univ. Western Ont., Parkwood Hosp., London, ON Canada
SOURCE: Clinical and Investigative Medicine, (1996) Vol. 19, No. 4 SUPPL., pp. S80.
Meeting Info.: Annual Meeting of the Canadian Society for Clinical Investigation, the Royal College of Physicians and Surgeons of Canada, and Participating Societies Halifax, Nova Scotia, Canada September 26-29, 1996
ISSN: 0147-958X.
DOCUMENT TYPE: Conference
LANGUAGE: English

L6 ANSWER 13 OF 19 CAPLUS COPYRIGHT 2000 ACS
ACCESSION NUMBER: 1996:105433 CAPLUS
DOCUMENT NUMBER: 124:220224
TITLE: Correlation between electrophysiological effects of mexiletine and ischemic protection in central nervous system white matter
AUTHOR(S): Stys, P. K.; Lesiuk, H.
CORPORATE SOURCE: Loeb Med. Res. Inst., Univ. Ottawa, Ottawa, ON, Can.
SOURCE: Neuroscience (Oxford) (1996), 71(1), 27-36
CODEN: NRSCDN; ISSN: 0306-4522
DOCUMENT TYPE: Journal
LANGUAGE: English

L6 ANSWER 14 OF 19 MEDLINE DUPLICATE 3
ACCESSION NUMBER: 95389330 MEDLINE
DOCUMENT NUMBER: 95389330
TITLE: Effect of 4-aminopyridine in acute **spinal cord injury**.
AUTHOR: Haghighi S S; Pugh S L; Perez-Espejo M A; Oro J J

CORPORATE SOURCE: Division of Neurosurgery, University of Missouri-Columbia 65212, USA..
SOURCE: SURGICAL NEUROLOGY, (1995 May) 43 (5) 443-7.
Journal code: VBJ. ISSN: 0090-3019.
PUB. COUNTRY: United States
Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals; Cancer Journals
ENTRY MONTH: 199512

L6 ANSWER 15 OF 19 BIOSIS COPYRIGHT 2000 BIOSIS
ACCESSION NUMBER: 1995:308044 BIOSIS
DOCUMENT NUMBER: PREV199598322344
TITLE: Plasma and cerebrospinal fluid concentrations of 4-aminopyridine following intravenous injection and metered intrathecal delivery in canines.
AUTHOR(S): Pratt, Kimball; Toombs, J. P.; Widmer, William R.; Borgens, Richard B. (1)
CORPORATE SOURCE: (1) Cent. Paralysis Res., Sch. Vet. Med., 1244 VCPR, Purdue Univ., West Lafayette, IN 47907-1244 USA
SOURCE: Journal of Neurotrauma, (1995) Vol. 12, No. 1, pp. 23-39. ISSN: 0897-7151.
DOCUMENT TYPE: Article
LANGUAGE: English

L6 ANSWER 16 OF 19 CAPLUS COPYRIGHT 2000 ACS
ACCESSION NUMBER: 1991:550405 CAPLUS
DOCUMENT NUMBER: 115:150405
TITLE: Charybdotoxin and peptide fragment for ischemia, hypoxia, or injury therapy
INVENTOR(S): Ohnishi, Tsuyoshi
PATENT ASSIGNEE(S): USA
SOURCE: U.S., 11 pp. Cont.-in-part of U.S. Ser. No. 104,199, abandoned.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5006512	A	19910409	US 1988-289072	19881222
JP 01156924	A2	19890620	JP 1988-248745	19881001
PRIORITY APPLN. INFO.:			US 1987-104199	19871002

L6 ANSWER 17 OF 19 BIOSIS COPYRIGHT 2000 BIOSIS
ACCESSION NUMBER: 1991:345581 BIOSIS
DOCUMENT NUMBER: BA92:44956
TITLE: THE EFFECTS OF 4 AMINOPYRIDINE ON NEUROLOGICAL DEFICITS IN CHRONIC CASES OF TRAUMATIC **SPINAL CORD INJURY** IN DOGS A PHASE I CLINICAL TRIAL.
AUTHOR(S): BLIGHT A R; TOOMBS J P; BAUER M S; WIDMER W R
CORPORATE SOURCE: CENT. PARALYSIS RES., PURDUE UNIV., WEST LAFAYETTE, INDIANA 47907.
SOURCE: J NEUROTRAUMA, (1991) 8 (2), 103-120.
CODEN: JNEUE4.

FILE SEGMENT: BA; OLD
LANGUAGE: English

L6 ANSWER 18 OF 19 MEDLINE DUPLICATE 4
ACCESSION NUMBER: 88154951 MEDLINE
DOCUMENT NUMBER: 88154951
TITLE: Augmentation by 4-aminopyridine of vestibulospinal free fall responses in chronic spinal-injured cats.
AUTHOR: Blight A R; Gruner J A
CORPORATE SOURCE: Department of Neurosurgery, New York University Medical Center, NY 10016.
CONTRACT NUMBER: NS21122 (NINDS)
NS10164 (NINDS)
SOURCE: JOURNAL OF THE NEUROLOGICAL SCIENCES, (1987 Dec) 82 (1-3) 145-59.
Journal code: JBJ. ISSN: 0022-510X.
PUB. COUNTRY: Netherlands
Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 198806

L6 ANSWER 19 OF 19 BIOSIS COPYRIGHT 2000 BIOSIS
ACCESSION NUMBER: 1988:106973 BIOSIS
DOCUMENT NUMBER: BR34:53315
TITLE: A NEW PHARMACOLOGIC APPROACH TO **SPINAL CORD INJURY** STUDY USING A DYNAMIC INJURY MODEL IN RATS.
AUTHOR(S): OHNISHI S T; BARR J K; KATAGI C
CORPORATE SOURCE: MEMBRANE RES. INST., UNIV. CITY SCI. CENT., PHILADELPHIA, PA 19104.
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